

2004

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cultural materials (dugout canoes). The COE then decided to allow all 30 tribes to review and comment on the proposal which delayed the issuing the permit until summer (June 21).

## 5. Research and Investigations

### a. Bat census

A Special Use Permit was issued to Stephen Brandebura, Arkansas State University, under contract with the Arkansas Game and Fish Commission, to census for the presence of the southeastern myotis and Rafinesque's big eared bat on Wapanocca. The state was interested in finding if those species were present in this portion of the state. Bat captures from six nights of trapping resulted in the following:

<u>Species</u>	<u>Number Captured</u>
<i>Lasiurus borealis</i> (Eastern Red Bat)	9
<i>Lasiurus cinereus</i> (Hoary Bat)	1
<i>Lasiurus seminolus</i> (Seminole Bat)	1
<i>Myotis austroriparius</i> (Southeastern Myotis)	2
<i>Nycticeius humeralis</i> (Evening Bat)	16
<i>Pipistrellus subflavus</i> (Eastern Pipistrel)	7

This work doubled the known bat specie presence on the refuge.

### b. Ground Water Level Monitoring

#### 1. Well #4 (near swamp area of lake)

Measurements taken from the bottom of the water bypass hole in the well casing which is 218.15' MSL.

<u>Date</u>	<u>Ground Water Elevation (MSL)</u>
August 31, 2001	203.05'
January 1	206.99'
February 3	207.25'
March 1	207.81'
April 1	207.86'
May 1	208.26'
June 1	207.44'
July 1	206.18'
August 1	206.65' (Lake drained)
September 1	204.64' (Lake drained)
October 1	204.28' (Lake drained)
November 1	205.17' (3.4" rain in last 2 days)
December 1	206.19' (12" rain in November)
December 31	206.64'